Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing , Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Ref. No	KMTH/CCKerbs/3604/2022
Date	17-05-2022
	TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Sub Code No	001-20-000014
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	16-05-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.98	189.99	2.00	7082	146.2	20.64	1.00	20.65	25.81	26.0	2.8460	0.00135	2115.29
2	S-02	94.97	189.89	2.00	7080	145.8	20.59	1.00	20.59	25.74		2.8420	0.00134	2113.88
3	S-03	94.98	189.98	2.00	7082	149.4	21.10	1.00	21.10	26.37		2.8620	0.00135	2127.30

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4984Q1ZI PAN No: AACCK4984Q

Report No	KMTH/CCKerbs/3604/2022	Date	17-05-2022
	TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92		
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64		
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03		
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21		
Work Code No	001-20-000014		
Number of Specimens*	3 No`s Cement Concrete Kerbs		
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm		
Date of Testing	16-05-2022		

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength N/Sq.mm	C.F. H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.98	189.99	2.00	7082	146.2	20.64	1.00	20.65	25.81	26.0	2.8460	0.00135	2115.29
2	S-02	94.97	189.89	2.00	7080	145.8	20.59	1.00	20.59	25.74		2.8420	0.00134	2113.98
3	S-03	94.98	189.98	2.00	7082	149.4	21.10	1.00	21.10	26.37		2.8620	0.00135	2127.30

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Soil Investigation, Concrete and NDT Testing , Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/3606/2022	Date	20-05-2022

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Job Code No	001-20-000014
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	19-05-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.89	189.98	2.00	7068	152.4	21.56	1.00	21.57	26.96	26.7	2.8640	0.00134	2132.82
2	S-02	94.88	189.88	2.00	7067	149.8	21.20	1.00	21.20	26.50		2.7960	0.00134	2083.72
3	S-03	95.00	190.20	2.00	7085	150.7	21.27	1.00	21.28	26.60		2.8064	0.00135	2082.68

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

AE

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. * Bangalore *

.....End of Report.....

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92.

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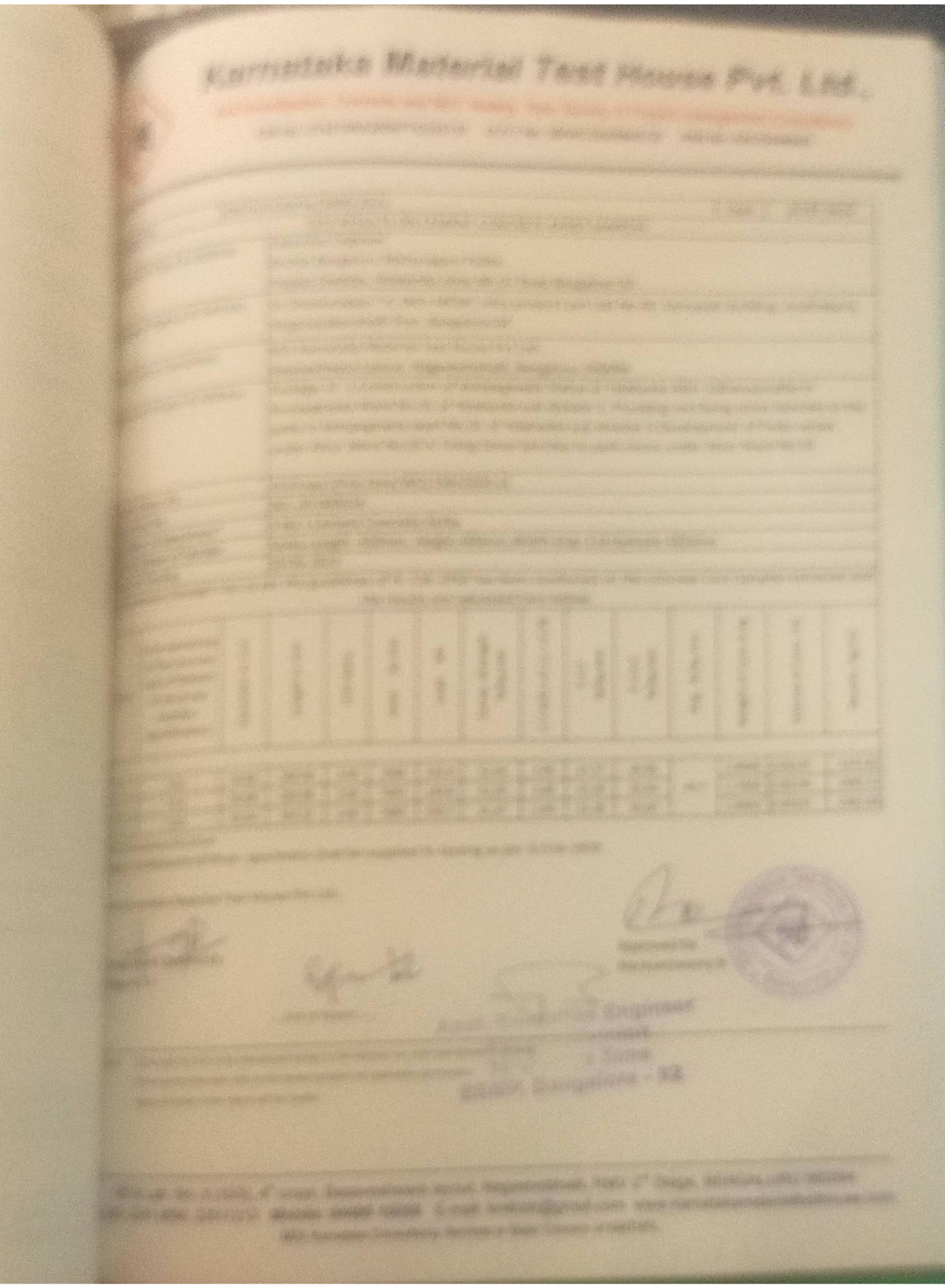
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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/3608/2022	Date	20-05-2022

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Job Code No	001-20-000014
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	19-05-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.00	190.00	2.00	7085	153.4	21.65	1.00	21.65	27.07	27.0	2.8460	0.00135	2114.29
2	S-02	94.89	189.98	2.00	7068	149.8	21.19	1.00	21.20	26.50		2.8260	0.00134	2104.52
3	S-03	94.89	190.00	2.00	7068	155.4	21.99	1.00	21.99	27.49		2.8100	0.00134	2092.39

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

Karnataka Material Test House Pvt. Ltd. Bangalore

.....End of Report.....

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/3605/2022
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Lab Code No	001-20-000014
Number of Specimens*	3 No`s Cement Concrete Kerbs
Type & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Dates of Testing	23-05-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.00	189.97	2.00	7085	149.6	21.12	1.00	21.12	26.39	26.4	2.7860	0.00135	2070.04
2	S-02	94.98	190.00	2.00	7082	150.4	21.24	1.00	21.24	26.55		2.8620	0.00135	2127.07
3	S-03	95.00	189.90	2.00	7085	148.6	20.97	1.00	20.97	26.22		2.8420	0.00135	2112.43

*As Furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

Karnataka Material Test House

AE

.....End of Report.....

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.	KMTH/CCKerbs/3607/2022	Date	24-05-2022
	TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES		
Name & Address of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92		
Name & Address of Agency	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64		
Name of Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name & Address of Project	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03		
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21		
Lab Code No	001-20-000014		
Number of Specimens* & Shape of Sample	3 No`s Cement Concrete Kerbs		
Date of Testing	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm		
	23-05-2022		

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.00	189.88	2.00	7085	150.4	21.23	1.00	21.23	26.53	26.8	2.8260	0.00135	2100.76
2	S-02	94.89	189.80	2.00	7068	152.4	21.56	1.00	21.56	26.95		2.7990	0.00134	2086.39
3	S-03	94.68	190.00	2.01	7037	150.6	21.40	1.00	21.42	26.77		2.8220	0.00134	2110.66

*To be furnished by the Client

Note: A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No.	KMTH/WMM/3618/2021-22	Date	26-05-2022

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 .1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Lab Code No	001-20-000014
Date of Testing	25-05-2022
Technical Referance	MORTH Specifications

WMM MATERIAL — *10000*

IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	312.2	312.2	3.12	96.88	95-100
22.4	2546.4	2858.6	28.59	71.41	60-80
11.2	2546.6	5405.2	54.05	45.95	40-60
4.75	1324.9	6730.1	67.30	32.70	25-40
2.36	1239	7969.1	79.69	20.31	15-30
0.6	770.5	8739.6	87.40	12.60	8--22
0.75	768.1	9507.7	95.08	4.92	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.76	Should not be more than 2%
2	Flakiness & Elongation Index	26.9%	Shall not be more than 40%
3	Aggregate Crushing Value	20.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

*As furnished by the client

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Reported & Checked by
Nagaraj K.S

Approved by
Narayanswamy.B

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Soil Investigation, Concrete and NDT Testing , Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/3619/2021-22	Date	27-05-2022

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Lab Code No	001-20-000014
Date of Testing	27-05-2022
Technical Referance	MORTH Specifications

WMM MATERIAL *10000*

IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	296.3	296.3	2.96	97.04	95-100
22.4	2870.1	3166.4	31.66	68.34	60-80
11.2	3000.5	6166.9	61.67	38.33	40-60
4.75	1768.2	7935.1	79.35	20.65	25-40
2.36	996.8	8931.9	89.32	10.68	15-30
0.6	1004.3	9936.2	99.36	0.64	8--22
0.75	25.3	9961.5	99.62	0.39	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

* As furnished by the client

Note : *The above tested sample satisfies the requirement of IS:383-2016*

For Karnataka Material Test House Pvt ltd.,

Approved by

Prepared & Checked by
Nagaraj K S

AE
Asst. Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

	KMTH/PAVERBLOCK/3609/2022	Date	30-05-2022
	TEST RESULTS ON PAVER BLOCKS SAMPLES		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92		
Name of Agency & Address	Sri Shankarappa T K. (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64		
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03		
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21		
Lab Code No	001-20-000014		
Number of Specimens*	5 No`s ZIG Zag Paver Block		
Date of Testing	28-05-2022		

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

WATER ABSORPTION

S/No	*Identification of members	Dimensions in mm L	B	H	Weight of Dry sample in gm	Weight of Wet sample in gm	Water Absorption by individual(%)	Average Water Absorption
1	Sample-01	225.0	112.0	60.0	7586	7708	1.61	1.61
2	Sample-02	225.0	113.0	60.0	6543	6628	1.30	
3	Sample-03	225.0	112.5	60.0	7068	7214	2.07	
4	Sample-04	225.0	112.5	60.0	6986	7126	2.00	
5	Sample-05	225.0	112.6	60.0	7246	7324	1.08	

COMPRESSIVE STRENGTH

S/No	*Identification of members	Dimensions in mm L	B	H	Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength in N/mm2 (L/A)	Compressive Strength x (Correction Factor)1.18	Average Compressive Strength N/mm2
1	Sample-01	225.0	112.0	60.0	25200.00	7586	955.20	37.90	44.73	44.69
2	Sample-02	225.0	113.0	60.0	25425.00	6543	960.20	37.77	44.56	
3	Sample-03	225.0	112.5	60.0	25312.50	7068	958.40	37.86	44.68	
4	Sample-04	225.0	112.5	60.0	25312.50	6986	962.10	38.01	44.85	
5	Sample-05	225.0	112.6	60.0	25335.00	7246	958.40	37.83	44.64	

Note:

Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5

As furnished by the client

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanaswamy

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/PAVERBLOCK/3611/2022	Date	31-05-2022

TEST RESULTS ON PAVER BLOCKS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Lab Code No	001-20-000014
No & Nature of Specimens*	5 No's ZIG Zag Paver Block
Date of Testing	30-05-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

WATER ABSORPTION

Sl No	*Identification of members	Dimensions in mm L	B	H	Weight of Dry sample in gm	Weight of Wet sample in gm	Water Absorption by Individual(%)	Average Water Absorption
1	Sample-01	224.8	112.0	60.0	7084	7214	1.84	1.81
2	Sample-02	225.2	113.0	60.0	7126	7268	1.99	
3	Sample-03	224.6	112.5	60.0	6984	7124	2.00	
4	Sample-04	225.0	112.5	60.0	7068	7166	1.39	
5	Sample-05	224.2	112.6	60.0	7024	7152	1.82	

COMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm L	B	H	Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength in N/mm2 (L/A)	Compressive Strength x (Correction Factor)1.18	Average Compressive Strength N/mm2
1	Sample-01	224.8	112.0	60.0	25177.60	7084	962.40	38.22	45.10	43.82
2	Sample-02	225.2	113.0	60.0	25447.60	7126	971.40	38.17	45.04	
3	Sample-03	224.6	112.5	60.0	25267.50	6984	899.80	35.61	42.02	
4	Sample-04	225.0	112.5	60.0	25312.50	7068	924.20	36.51	43.08	
5	Sample-05	224.2	112.6	60.0	25244.92	7024	916.80	36.32	42.85	

Note :

Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15858-2006 clause 6.2.5 page 5

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanaswamy B H

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Ref. No.	KMTH/PAVERBLOCK/3613/2022	Date	31-05-2022

TEST RESULTS ON PAVER BLOCKS SAMPLES

Client's Name & Address	Executive Engineer Gruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Name Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No:	EE(Project)Ynk Zone/WO/169/2020-21
Sample No:	001-20-000014
Nature of Specimens*	5 No s ZIG Zag Paver Block
Date of Testing	31-05-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

WATER ABSORPTION

Sr No	*Identification of members	Dimensions in mm L	B	H	Weight of Dry sample in gm	Weight of Wet sample in gm	Water Absorption by Individual(%)	Average Water Absorption
1	Sample-01	224.8	112.0	60.0	7084	7214	1.84	1.81
2	Sample-02	225.2	113.0	60.0	7126	7268	1.99	
3	Sample-03	224.6	112.5	60.0	6984	7124	2.00	
4	Sample-04	225.0	112.5	60.0	7068	7166	1.39	
5	Sample-05	224.2	112.6	60.0	7024	7152	1.82	

COMPRESSIVE STRENGTH

Sr No	*Identification of members	Dimensions in mm L	B	H	Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength in N/mm2 (L/A)	Compressive Strength x (Correction Factor)1.18	Average Compressive Strength N/mm2
1	Sample-01	224.8	112.0	60.0	25177.60	7084	962.40	38.22	45.10	43.62
2	Sample-02	225.2	113.0	60.0	25447.60	7126	971.40	38.17	45.04	
3	Sample-03	224.6	112.5	60.0	25267.50	6984	899.80	35.61	42.02	
4	Sample-04	225.0	112.5	60.0	25312.50	7068	924.20	36.51	43.08	
5	Sample-05	224.2	112.6	60.0	25244.92	7024	916.80	36.32	42.85	

Note

Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K.S

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Approved by
Narayanswamy.B

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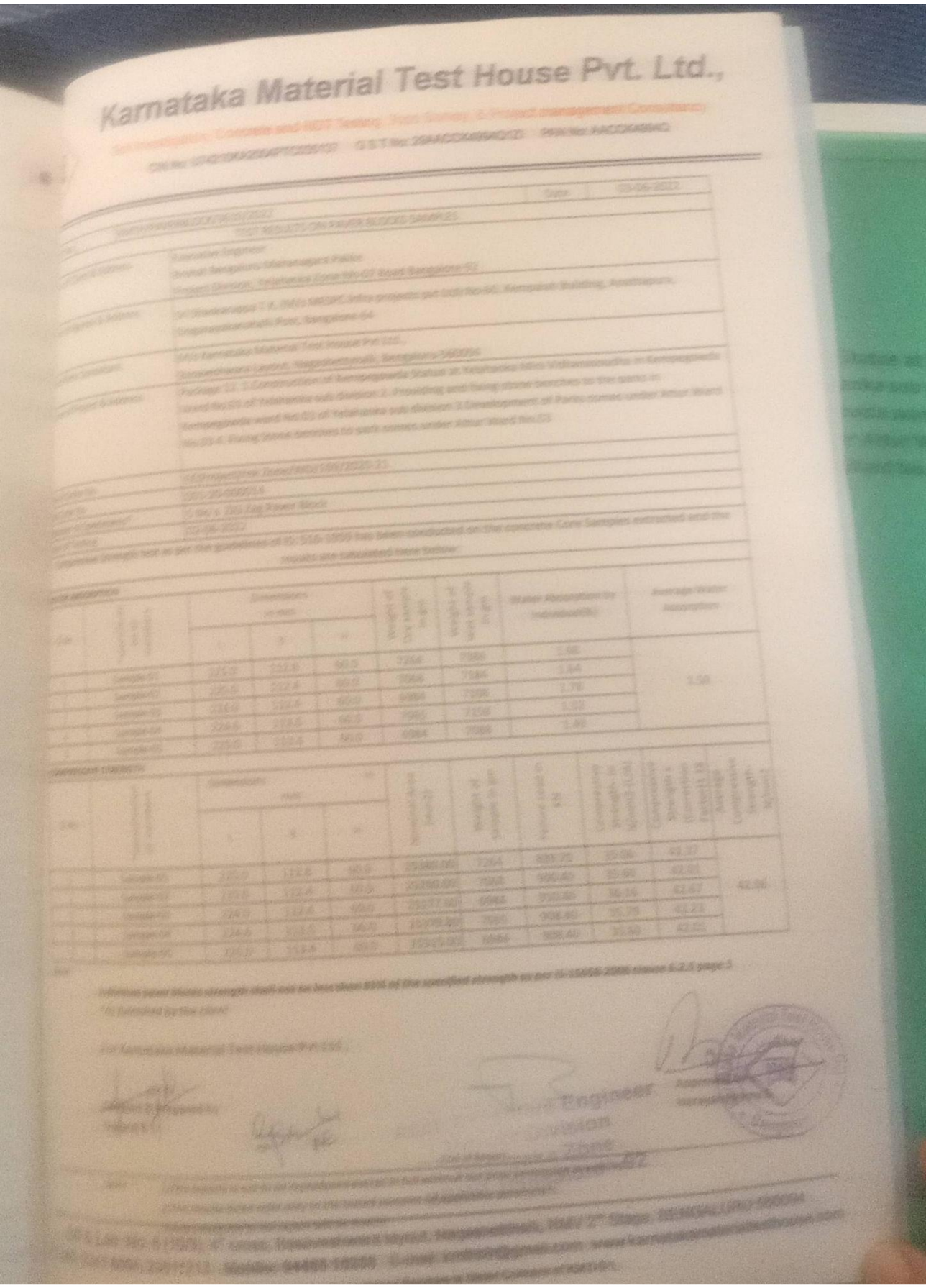

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Soil Investigation, Concrete and NDT Testing, Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Ref No.	KMTH/PAVERBLOCK/3612/2022	Date	04-06-2022

TEST RESULTS ON PAVER BLOCKS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Name of Firm Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Soil Code No	001-20-000014
Number of Specimens*	5 No's ZIG Zag Paver Block
Date of Testing	02-06-2022

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

WATER ABSORPTION

Sl No	*Identification of members	Dimensions in mm			Weight of Dry sample in gm	Weight of Wet sample in gm	Water Absorption by individual(%)	Average Water Absorption
		L	B	H				
1	Sample-01	225.0	112.5	60.0	7122	7233	1.56	1.45
2	Sample-02	225.0	112.8	60.0	7208	7324	1.61	
3	Sample-03	224.0	113.8	60.0	6894	7012	1.71	
4	Sample-04	224.6	114.2	60.0	6858	6942	1.22	
5	Sample-05	225.0	112.2	60.0	7062	7144	1.16	

COMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2 (L/A)	Compressive Strength x (Correction Factor)1.18	Average Compressive Strength- N/mm2
		L	B	H						
1	Sample-01	225.0	112.5	60.0	25312.50	7122	910.40	35.97	42.44	42.03
2	Sample-02	225.0	112.8	60.0	25380.00	7208	952.40	37.53	44.28	
3	Sample-03	224.0	113.8	60.0	25491.20	6894	872.40	34.22	40.38	
4	Sample-04	224.6	114.2	60.0	25649.32	6858	880.60	34.33	40.51	
5	Sample-05	225.0	112.2	60.0	25245.00	7062	910.20	36.05	42.54	

Note :

Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Approved by
Narayanswamy B

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Date : 06-09-2022

TEST RESULTS ON HARD & SOUND SAMPLES

Executive Engineer
Project Division, Yelahanka Zone
No.1 Chikkabanavara Post, Bengaluru-64.

M/s. Karnataka Material Test House Pvt Ltd.,
Basaveshwara Extension, Nagashettihalli, Bengaluru-560094.

Name of the work : Package 102: 1.Development of Kempegowda Statue at Yelahanka Alias Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division-3. Providing and fixing stone benches to the parks in Kempegowda Ward No.01 of Yelahanka sub division-3. Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03.

Ref. No. : EE/Project/Yel/ Dated:NIL/1994/2020-21

Work Order No. : GKA-20-00003-0

Name of the Agency : M/s. TVS Sag Power Block

Date of Testing : 04-08-2022

Cube Samples taken as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

WATER ABSORPTION

Sl.No.	Identification Mark	Dimensions in mm			Dry Weight of the Specimen (W1) gms	Saturated Weight of the Specimen (W2) gms	Water Absorption by individual(%)	Average Water Absorption
		L	B	H				
1	Sample-01	105.0	105.0	60.0	7126	7268	1.99	1.91
2	Sample-02	104.5	110.5	60.0	6984	7124	2.00	
3	Sample-03	104.0	110.0	60.0	6894	7012	1.71	
4	Sample-04	104.8	110.0	60.0	7084	7214	1.84	
5	Sample-05	105.2	110.0	60.0	7126	7263	1.93	

COMPRESSIVE STRENGTH

Sl.No.	Identification Mark	Dimensions in mm			Area of Cross Section (mm2)	Density of the Specimen Kg/m3	Load at Failure KN	Compressive Strength N/mm2 (1/5)	Compressive Strength x Correction Factor(1.18	Average Compressive Strength N/mm2
		L	B	H						
1	Sample-01	105.0	110.0	60.0	35447.60	7126	908.40	35.70	42.12	42.11
2	Sample-02	104.5	110.5	60.0	35267.50	6984	889.70	35.21	41.55	
3	Sample-03	104.0	110.0	60.0	25481.20	6894	923.00	36.22	42.74	
4	Sample-04	104.8	110.0	60.0	35177.60	7084	924.20	36.71	43.31	
5	Sample-05	105.2	110.0	60.0	35447.60	7126	880.40	34.60	40.82	

Individual cover blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5

Not Examined by the client

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by:
Raghu K.S

Asst. Executive Engineer
Project Division
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No.1 Chikkabanavara Post, Bengaluru - 92

Approved by:
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Date:15-06-2022

Report No: KMTH/Solid Block/3616/2022

TEST RESULTS ON SOLID BLOCKS

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Job Code No	001-20-000014
Source of Sample	Collected from the site
Nature of Sample	SOLID BLOCKS 3 No`s
Date of Testing	15-06-2022
Technical Reference	IS : 2185 (Part I) - 2005

COMPRESSIVE STRENGTH

Sl No	Sample ID	*Identification of members	Dimensions in mm L	B	H	Nominal Area (mm2)	Dry Weight of Sample in gm	Max. Failure Load in KN	Ind. Compressive Strength N/mm2	Average Compressive Strength-N/mm2
1	3121	Sample-01	400.0	200.0	200.0	80000.00	27435.00	511.20	6.39	6.29
2	3122	Sample-02	400.0	200.0	200.0	80000.00	28045.00	473.30	5.92	
3	3123	Sample-03	400.0	200.0	200.0	80000.00	27070.00	524.20	6.55	

*As furnished by the client

Remarks: *Above Sample confirms to the requirements of IS-2185 (Part-1) 2005 Table 2.0, Clause 5.1, 5.2 & 9.4) Page No-4*
Satifies the Minimum compressive strength of indiviusal units(5.0N/mm2)

Result *Satifies the requirement of (C-5) average compressive strength for grade C(5.0)*
Passes the test as per the requirement for IS Standards

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S
Director

Approved by
Narayanaswamy.S
Managaing Director

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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5.Laboratory shall not in any way in any action followingb the intrepreatation of the test result.

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Solid Block/3617/2022	Date:18-06-2022

TEST RESULTS ON SOLID BLOCKS

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Job Code No	001-20-000014
Source of Sample	Collected from the site
Nature of Sample	SOLID BLOCKS 3 No`s
Date of Testing	18-06-2022
Technical Referance	IS : 2185 (Part I) - 2005

COMPRESSIVE STRENGTH

Sl No	Sample ID	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Dry Weight of sample in gm	Max. Failure Load in kN	Ind. Compressive Strength N/mm2	Average Compressive Strength N/mm2
			L	B	H					
1	3440	Sample-01	400.0	200.0	200.0	80000.00	35310.00	564.30	7.05	6.66
2	3441	Sample-02	400.0	200.0	200.0	80000.00	34550.00	501.30	6.27	
3	3442	Sample-03	400.0	200.0	200.0	80000.00	34875.00	532.10	6.65	

*As furnished by the client

Remarks: ***Above Sample confirms to the requirements of IS-2185 (Part-1) 2005 Table 2.0, Clause 5.1, 5.2 & 9.4) Page No-4***
Satifies the Minmum compressive strength of indiviusal units(5.0N/mm2)

Result ***Satifies the requirement of (C-5) average compressive strength for grade C(5.0)***
Passes the test as per the requirement for IS Standards

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanaswamy B

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Note
1)This reports is not to be reproduced except in full without our prior permission in writing
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid. 4. Any Discrepancy in the report shoould be reported within the 15days days.
5 Laboratory shall not in any way in any action followingb the intrepreotation of the test result.

Off & Lab :No 8 (10/3), 4th cross, Basaveshwara layout, Nagasheltihalli, RMV 2nd Stage, BENGALURU 560094
080-2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing , Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Solid Block/3618/2022	Date:24-06-2022

TEST RESULTS ON SOLID BLOCKS

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Project Division, Yelahanka Zone Nh-07 Road Bangalore-92
Name of Agency & Address	Sri Shankarappa T K, (M/s MESPC Infra projects pvt Ltd) No-60, Kempaiah Building, Anathapura, Singanayakanahalli Post, Bangalore-64
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package 12 1.Construction of Kempegowda Statue at Yelahanka Mini Vidhanasoudha in Kempegowda Ward No.01 of Yelahanka sub division 2. Providing and fixing stone benches to the parks in Kempegowda ward No.01 of Yelahanka sub division 3.Development of Parks comes under Attur Ward No.03 4. Fixing Stone benches to park comes under Attur Ward No.03
Work Order No	EE(Project)Ynk Zone/WO/169/2020-21
Job Code No	001-20-000014

Source of Sample	Collected from the site
Nature of Sample	SOLID BLOCKS 3 No's
Date of Testing	24-06-2022
Technical Reference	IS : 2185 (Part I) - 2005

COMPRESSIVE STRENGTH

Sl No	Sample ID	Identification of Samples	Dimensions in mm L	B	H	Maximum Load (kN)	Compressive Strength (kg/cm²)	Area (cm²)	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm²)
1	3764	Sample-01	400.0	200.0	200.0	80000.00	24565	422.30	5.28	5.35
2	3765	Sample-02	400.0	200.0	200.0	80000.00	25015	431.60	5.40	
3	3766	Sample-03	400.0	200.0	200.0	80000.00	24220	429.80	5.37	

*As furnished by the client

Remarks: *Above Sample confirms to the requirements of IS-2185 (Part-1) 2005 Table 2.0, Clause 5.1, 5.2 & 9.4) Page No-4*
Satifies the Minimum compressive strength of individual units(4.0N/mm2)
Satifies the requirement of (C-5) average compressive strength for grade C(5.0)
95.45% confidential level 6.18±0.29 Std dev 0.06
Passes the test as per the requirement for IS Standards

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K/s

Approved by
Ashwathanarayana

Asst. Executive Engineer
Project Division
Solid Block Zone
Bangalore - 92

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